

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:06

First Dose M/F: NA / NA

Lab: NCTR

C Number: MG96005

Lock Date: Not Entered.

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date NONE

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/18/2014

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 15:42:06

CAS Number: 446-72-0

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Male F4 0 PPM	DAY ON TEST																				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		1	1	1	2	2	2	1	1	1	2	2	2	1	4	3	2	2	1	1	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
		3	3	3	7	7	7	7	7	8	1	1	1	1	5	5	5	5	5	5	6
		4	5	6	4	5	6	7	8	9	0	5	6	7	8	2	3	4	5	6	7
Prostate		+										+									
Prostate, Dorsal Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Inflammation, Suppurative		1																			
Prostate, Ventral Lobe		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Inflammation, Chronic		1	1	1	1	1															
Inflammation, Suppurative		1																			
Rete Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Dilatation																					
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Testes		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Seminif Tub, Degeneration																					
Hematopoietic System																					
Bone Marrow		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Spleen		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Adventitia, Inflammation, Chronic																					
Pigmentation		1	1	1	1																
Thymus		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Integumentary System																					
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Alveolus, Hyperplasia		2																			
Skin		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:07

First Dose M/F: NA / NA

Lab: NCTR

Musculoskeletal System

Bone, Femur

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Inflammation, Chronic					1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	18 1.1	
Pelvis, Dilatation															2						1 2.0	
Renal Tubule, Dilatation	2	1	1		2	1		1							1	1	2	1	1	2	2	13 1.4
Renal Tubule, Mineralization																					1 1.0	
Renal Tubule, Regeneration															2						6 1.2	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A ..Autolysis precludes evaluation

1) Minimal 3) Moderate

I ..Insufficient tissue

BLANK ..Not examined microscopically

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:07

First Dose M/F: NA / NA

Lab: NCTR

Alimentary System

Mesentery + 1
Inflammation, Chronic Active 4 1 4.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:07

First Dose M/F: NA / NA

Lab: NCTR

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

| ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 „Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:07

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F4/100PPM TO CTL**

CD Rat Male F4/100PPM TO CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		1	1	1	1	1	0	2	2	2	3	3	1	1	2	2	2	1	1	1	5	5	5
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2
		4	4	4	4	4	4	8	8	8	8	2	2	2	2	6	6	6	7	7	9	9	0
		3	4	5	6	7	8	5	6	7	8	4	5	6	7	6	7	8	9	9	9	0	1

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

| ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/18/2014

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 15:42:07

CAS Number: 446-72-0

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F4/100PPM TO CTL**

DAY ON TEST	0 0																				
	1 1																				
	6 6																				
	I I I I I 0 2 2 2 3 3 1 1 2 2 2 1 1 5 5 5 5 4																				
	0 0																				
ANIMAL ID		0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2
		4	4	4	4	4	4	8	8	8	8	2	2	2	2	6	6	6	7	7	0
		3	4	5	6	7	8	5	6	7	8	4	5	6	7	6	7	8	9	9	1
																					*TOTALS

Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	+	+	24
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	24
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Seminif Tub, Degeneration	1	1																			4 1.0

Hematopoietic System

NONE

Integumentary System

Mammary Gland

+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
2																				6 1.5

Alveolus, Hyperplasia

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

- 1) Minimal 3) Moderate
- 2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:07

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F4/500PPM TO CTL**

DAY ON TEST	0 0																																							
	1 1																																							
6 5																																								
I I I I I I 2 2 2 1 2 2 2 1 0 1 5 5 4 2 1 1 9																																								
0 0																																								
1 1																																								
0 0																																								
4 5 5 5 5 5 5 8 9 9 9 9 2 2 3 3 3 7 7 0 0 0 1 1																																								
9 0 1 2 3 4 9 0 1 2 3 8 9 0 1 2 2 3 3 4 5 1 2 3 4																																								
*TOTALS																																								

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Inflammation, Chronic	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	18 1.1
Malformation																	X				1
Necrosis																		1		2	1.5
Vacuolization Cytoplasmic																			1		1 1.0

Cardiovascular System

NONE

Endocrine System

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Accessory Adrenal Cortical Nodule																	X		X		2
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Pars Distalis, Cyst																	X				1
Pars Distalis, Cyst, Multiple		X																			1
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25

General Body System

NONE

Genital System

Coagulating Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
-------------------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	----

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/18/2014

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 15:42:07

CAS Number: 446-72-0

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Male
F4/500PPM TO CTL**

DAY ON TEST	ANIMAL ID																				*TOTALS
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	1	1	1	1	1	1	2	2	2	2	1	2	2	2	1	0	1	1	5	4	
Epididymis	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Infiltration Cellular, Lymphocyte																					1 1.0
Prostate																					1
Prostate, Dorsal Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Inflammation, Chronic		1				1					1	1									6 1.0
Inflammation, Suppurative		2				2		1			1	1									6 1.3
Prostate, Ventral Lobe	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Inflammation, Chronic	1	2	2	2	2	1	1	2	1	1	2	2	2	2	2	1	1	1	1	1	23 1.4
Inflammation, Suppurative		1																			2 1.5
Rete Testes	+	+	+	+	+	+	+	+	+	+	+	+	M	M	+	+	+	+	+	M	22
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Dilatation																					1 2.0
Testes	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Seminif Tub, Degeneration						1							1								3 1.0
Hematopoietic System																					
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Pigmentation	1			1	1	1		1				1									10 1.0
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Integumentary System																					
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	I	24	
Alveolus, Hyperplasia		1		2		2		2		1		2									6 1.7

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:08

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F4 0 PPM	DAY ON TEST																					
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	7	1	1	1	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	4	4
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	5	5	5	5	6	6	9	9	9	9	9	3	3	3	3	7	7
	4	5	6	7	8	5	6	7	8	9	0	1	4	5	6	7	8	4	5	6	7	8

Alimentary System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 „Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:08

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F4 0 PPM

DAY ON TEST	0 0																			
	1 1																			
ANIMAL ID	4 6																			
	7 1 1 1 0 1 1 0 0 1 1 0 0 1 1 1 1 1 1 1 1 1 1 1 3																			

*TOTALS

Hyperplasia, Multifocal, Focal	2	1	2.0
Adrenal Medulla	+	+	+
Pituitary Gland	+	+	+
Thyroid Gland	+	+	+

General Body System

NONE

Genital System

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	25
Diestrus	X				X				X	X				X					X			6
Estrus						X		X			X											3
Metestrus				X																X		2
Proestrus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	25
Estrus					X						X											2
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26
Autolysis	2																					1 2.0
Decidual Reaction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	25
Diestrus	X				X				X	X				X								6
Estrus						X		X			X											3
Metestrus				X															X	X		3
Proestrus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	14
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	26

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:08

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F4 0 PPM**

DAY ON TEST	TEST RESULTS																			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
7	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	4	3
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
1	1	1	1	1	1	5	5	5	5	6	6	9	9	9	9	3	3	3	7	7
4	5	6	7	8	5	6	7	8	9	0	1	4	5	6	7	8	4	5	6	7
8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	5	5	6	7	8

*TOTALS

Autolysis	2													1	2.0
Diestrus		X			X				X	X		X		X	6
Estrus			X			X	X	X	X		X	X			9
Metestrus				X									X	X	3
Proestrus		X	X		X	X		X			X		X	X	8

Hematopoietic System

Integumentary System

Musculoskeletal System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ .. Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

| ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate
2) Mild 4) Marked

Experiment Number: 99930-95

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:08

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F4 0 PPM	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		7	1	1	1	0	1	1	1	0	0	0	1	1	1	1	1	1	1	1	4	4	3
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
ANIMAL ID		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	5	5	5	5	6	6	9	9	9	9	3	3	3	3	7	7	7
		4	5	6	7	8	5	6	7	8	9	0	1	4	5	6	7	8	4	5	6	7	8

Nervous System

Brain	+		1
Brain, Cerebrum		+	1
Unilateral, Hydrocephalus		3	1 3.0

Respiratory System

Lung	+	1
Autolysis	2	1 2.0
Congestion	4	1 4.0
Infiltration Cellular, Macrophage	3	1 3.0
Nose	+	1
Autolysis	2	1 2.0

Special Senses System

NONE

Urinary System

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A ..Autolysis precludes evaluation

1) Minimal 3) Moderate

I ..Insufficient tissue

BLANK ..Not examined microscopically

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:08

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F4/5PPM TO CTL	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		1	1	1	1	1	1	1	9	1	0	0	0	0	1	1	1	0	4	4	4	3	1
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2
	1	2	2	2	2	6	6	6	6	9	0	0	0	3	4	4	7	7	8	8	8	8	0
	9	0	1	2	3	2	3	4	5	9	0	1	2	3	9	0	1	4	9	0	1	2	3

Alimentary System

NONE

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	24	
Diestrus		X		X		X		X		X		X		X		X		X			8	
Estrus													X		X		X		X			4
Metestrus		X																	X			2
Proestrus			X		X	X		X	X		X		X	X			X	X				10
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	24	
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Decidual Reaction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24	
Diestrus		X		X		X		X		X		X		X		X		X			9	
Estrus													X		X		X		X			4
Metestrus		X																X				2

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

| ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:09

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F4/5PPM TO CTL**

	DAY ON TEST	ANIMAL ID																				*TOTALS	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	6	6	6	6	6	6	6	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
	I	I	I	I	I	I	I	I	9	I	0	0	0	I	I	I	0	4	4	4	3	I	
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	
	1	2	2	2	2	6	6	6	9	0	0	0	3	4	4	7	7	8	8	8	8	0	
	9	0	1	2	3	2	3	4	5	9	0	1	2	3	9	0	1	4	9	0	1	2	
Proestrus		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	10	
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Diestrus		X		X		X		X		X		X		X		X		X		X		X	9
Estrus								X		X		X		X		X		X		X		X	6
Metestrus		X																					2
Proestrus			X		X	X	X		X		X	X	X					X					8
Hematopoietic System																							
NONE																							
Integumentary System																							
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25	
Alveolus, Hyperplasia		4	2	1	3	3	1	3	1	1	2	1	2	2	3								15
Lobules, Hyperplasia		3	1		2		3			2													6
Musculoskeletal System																							
NONE																							
Nervous System																							
NONE																							
Respiratory System																							
NONE																							
Special Senses System																							

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:09

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female F4/5PPM TO CTL

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25		
Cyst								X		X												2		
Mineralization	2	4	1	1	1	1	1	1	2	1	2	1	1	1	1	2	4	1	1	1	2	1	23	1.5

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

1-4 ..Lesion qualified as:

X ..Lesion present

A ..Autolysis precludes evaluation

1) Minimal 3) Moderate

| ..Insufficient tissue

BLANK ..Not examined microscopically

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/18/2014

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 15:42:09

CAS Number: 446-72-0

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F4/100PPM TO CTL**

DAY ON TEST	0 0																				
	1 1																				
ANIMAL ID	6 6																				
	I I I 0 0 2 2 0 0 1 1 0 0 1 1 1 1 1 1 1 1 5 5 4																				
																				*TOTALS	

Alimentary System

Liver	+	1
Congestion	3	1 3.0
Developmental Malformation	X	1

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

Ovary	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	24
Diestrus	X	X	X				X										X	X	X		7
Estrus								X	X	X	X	X	X				X	X	X		9
Proestrus	X			X	X		X	X	X								X	X			8
Oviduct	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	M	+	+	+	24
Uterus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Decidual Reaction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		23
Diestrus	X	X	X			X											X	X	X		8
Estrus								X	X	X	X	X	X				X	X	X		9

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:09

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F4/100PPM TO CTL

	DAY ON TEST	ANIMAL ID																				*TOTALS
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
	1	1	1	0	0	2	2	0	0	1	1	0	0	1	1	1	1	1	1	5	5	4
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	6	6	6	6	7	0	0	0	4	4	4	4	4	4	8	8	8
	4	5	6	7	8	6	7	8	9	0	4	5	6	7	2	3	4	5	6	7	8	4
Proestrus		X		X	X	X	X	X	X	X					X	X						8
Vagina		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Diestrus		X	X	X		X										X	X	X		X		8
Estrus		X					X	X	X	X	X	X	X	X	X	X	X	X	X	X		14
Proestrus				X	X												X		X	X	X	3
Hematopoietic System																						
NONE																						
Integumentary System																						
Mammary Gland		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Alveolus, Hyperplasia		2	3	2	4	2	3	4	2		2	3		2								11
Lobules, Hyperplasia		1	3			2	4					1		1								2.6
6																					2.0	
Musculoskeletal System																						
NONE																						
Nervous System																						
NONE																						
Respiratory System																						
NONE																						
Special Senses System																						
NONE																						

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/18/2014

Test Compound: Endocrine disruptor (Genistein)

Time Report Requested: 15:42:09

CAS Number: 446-72-0

First Dose M/F: NA / NA

Lab: NCTR

CD Rat Female
F4/100PPM TO CTL

DAY ON TEST	0 0																																							
	1 1																																							
6 6																																								
I I I 0 0 2 2 0 0 1 1 0 0 1 1 1 1 1 1 1 1 5 5 4																																								
ANIMAL ID	0 0																																							
	1 1																																							
0 0																																								
2 2 2 2 2 6 6 6 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																																								
4 5 6 7 8 6 7 8 9 0 4 5 6 7 2 3 4 5 6 7 8 4 5 6 7																																								

*TOTALS

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	25
Cyst																				1
Mineralization	1	1	2	3	2	3	3	1	1	1	1	3	3	1	1	2	2	3	2	1

22 1.9

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 99930-95

Test Type: SPECIAL STUDY

Route: DOSED FEED

Species/Strain: Rat/CD

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Endocrine disruptor (Genistein)

CAS Number: 446-72-0

Date Report Requested: 10/18/2014

Time Report Requested: 15:42:09

First Dose M/F: NA / NA

Lab: NCTR

**CD Rat Female
F4/500PPM TO CTL**

DAY ON TEST	ANIMAL ID																									*TOTALS		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
	1	1	1	1	1	2	2	1	2	1	1	0	0	0	0	1	1	5	5	4	4	1	2	1	1	1		
Decidual Reaction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	23		
Diestrus	X			X			X	X	X		X		X														8	
Estrus							X																					2
Metestrus																												5
Proestrus	X	X	X		X					X	X		X					X	X	X	X	X	X	X	X		10	
Vagina	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Diestrus	X		X			X	X	X		X		X																8
Estrus				X	X				X																			4
Metestrus																		X	X	X	X	X	X	X	X		5	
Proestrus	X	X	X							X		X																8
Hematopoietic System																												
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Spleen	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Thymus	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Integumentary System																												
Mammary Gland	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Alveolus, Hyperplasia	3	3		1	2		1		4			3		3	2													11 2.3
Lobules, Hyperplasia				1	1				3			4																4 2.3
Skin	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	
Musculoskeletal System																												
Bone, Femur	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		25	

* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

M ..Missing tissue

X ..Lesion present

A ..Autolysis precludes evaluation

I ..Insufficient tissue

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

